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16 (US-6122395-\$ or US-6374652-\$ or US-5363453-\$ or US-6091839-\$ or US-6918318-\$ or US-6487306-\$ or US-6487306-\$ or US-6658140-\$ or US-6658140-\$ or US-63314196-\$ or US-633091-\$).did. or (US-20020097896-\$ or US-20010036299-\$).did.	5 ((US-6122395-\$ or US-6374652-\$ or US-5363453-\$ or US-6091839-\$ or US-6974163-\$ or US-6487306-\$ or US-6487306-\$ or US-6658140-\$ or US-6658140-\$ or US-6658140-\$ or US-6374188-\$ or US-6374196-\$ or US-63091-\$). did. or (US-20020097896-\$ or US-20010036299-\$). did.) and interp\$8	392 ((curve) with (interpolat\$ with by SPAT; US-PGPUB; (pixel or point)) and (382.clas. EPO; JPO; DERWENT; or 345.clas.) 288 ((curve) with (interpolat\$ with USPAT; US-PGPUB; (pixel or point))) and (382.clas. EPO; JPO; DERWENT; or 345.clas.) and @ad<20001011 1 ((curve) with (interpolat\$ with (USPAT; US-PGPUB; (pixel or point))) and (382.clas. EPO; JPO; DERWENT; or 345.clas.) and @ad<20001011 and fingerprint	288 ((curve) with (interpolat\$ with USPAT; US-PGPUB; (pixel or point)) and (382.clas. EPO; JPO; DERWENT; or 345.clas.) and IBM_TDB
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USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT, US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
30 ((curve) with (interpolat\$ with USPAT; US-PGPUB; (pixel or point))) and (382.clas. EPO; JPO; DERWENT; or 345.clas.) and IBM_TDB (@ad<20001011 and curve.ti.	3 (interpolat\$ with (pixel)) and (382.clas. or 345.clas.) and @ad<20001011 and curve.ti.	(interpolat\$ with (pixel)) and (382.clas. or 345.clas.) and @ad<20001011	614 ((interpolat\$ with (pixel)) with point) and (382.clas. or 345.clas.) and @ad<20001011	29 (((interpolat\$ with (pixel)) with USPAT; US-PGPUB; point) same curve) and EPO; JPO; DERWEN (382 clas. or 345.clas.) and IBM_TDB @ad<20001011	ntour	143750 (382.clas. or 345.clas. or 356.clas.) and @ad<20001011	ve or contour image) same d ((382.clas. i6.clas.) and	25 (((fit\$6 near (curve or contour or spline)) with image) same interpolation)	O ((((fit\$6 near (curve or contour IUSPAT; US-PGPUB; or spline)) with image) same
300	r	30908	614	29	91	143750	37	25	0

0 (((fit\$6 near (curve or contour USPAT; US-PGPUB; or spline)) with image) same EPO; JPO; DERWENT; interpolation)) and ((382.clas. IBM_TDB or 345.clas. or 356.clas.) and (@ad<20001011)	24 (((fit\$6 near (curve or contour USPAT; US-PGPUB; or spline)) with pixel) same	11 ((((fit\$6 near (curve or contour USPAT; US-PGPUB; or spline)) with pixel) same EPO; JPO; DERWENT; interpolation)) and ((382.clas.) IBM_TDB or 345.clas. or 356.clas.) and @ad<20001011)	168 curve with (subpixel or USPAT; US-PGPUB; sub?pixel or ("sub" adj1 pixel)) EPO; JPO; DERWENT; lBM_TDB	40 curve with (subpixel or USPAT; US-PGPUB; sub?pixel or ("sub" adj1 pixel)) EPO; JPO; DERWENT; and ((382.clas. or 345.clas. or IBM_TDB 356.clas.) and @ad<20001011)	(continous or smooth)) and EPO; JPO; DERWENT; ((382.clas. or 345.clas. or 18M_TDB 356.clas.) and @ad<20001011)	5 (curve with (image) with USPAT; US-PGPUB; (continous or smooth)) and EPO; JPO; DERWENT; ((382.clas. or 345.clas. or 1BM_TDB 356.clas.) and @ad<20001011) and fingerprint	5 (US-5963679-\$ or US- 5852670-\$ or US-5828773-\$ or US-5956415-\$ or US- 6678411-\$).did.
10 ((((fit\$6 near (or spline)) with interpolation)) or 345.clas. o @ad<200010	24 (((fit\$6 near (c or spline)) with interpolation)	11 ((((fit\$6 near (or spline)) with interpolation)) or 345.clas. or @ad<200010	168 curve with (su sub?pixel or ('	40 curve with (su sub?pixel or ("and ((382.clas 356.clas.) and (@ad<200010)	93 (curve with (in (continous or s ((382.clas.) or 356.clas.) and @ad<200010	5 (curve with (irr (continous or s ((382.clas. or 356.clas.) and @ad<2000107	5 (US-5963679- 5852670-\$ or or US-595641 6678411-\$).dia

1 2 2 2 2 2 2 2 2 2	5 (curve with (image) with USPAT; US-PGPUB; (continous or smooth)) and EPO; JPO; DERWENT; ((382.clas. or 345.clas. or 1BM_TDB 356.clas.) and (@ad<20001011) and ((US-5963679-\$ or US-5828773-\$ or US-6678411-\$).did.)	0 ((cruve or contour) with USPAT; US-PGPUB; ("from" near3 image)) and EPO; JPO; DERWENT; ((382.clas. or 345.clas. or 18M_TDB 356.clas.) and @ad<20001011)	0 ((curve or contour) with USPAT; US-PGPUB; ("from" near3 image)) and EPO; JPO; DERWENT; ((382.clas. or 345.clas. or 18M_TDB 356.clas.) and @ad<20001011)	0 (("from" near3 image)) and USPAT; US-PGPUB; ((382.clas. or 345.clas. or EPO; JPO; DERWENT; 356.clas.) and IBM_TDB @ad<20001011)	0 ((from near3 image)) and USPAT; US-PGPUB; ((382.clas. or 345.clas. or EPO; JPO; DERWENT; 356.clas.) and IBM_TDB @ad<20001011)	513 (((obtain\$6 or deriv\$8 or get or USPAT; US-PGPUB; determin\$6 or acqui\$8 or EPO; JPO; DERWENT; genera\$8 or produc\$8) near3 IBM_TDB curve) with (image)) and ((382.clas. or 345.clas. or 35.clas. or 36.clas.) and @ad<20001011)	82496 (382.clas. or 345.clas.) and USPAT; US-PGPUB; @ad<20001011 EPO; JPO; DERWENT; IRM TDR
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USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT, US-PGPUB; EPO; JPO; DERWENT, IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; EPO
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USPAT, US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
5((US-5040224-\$ or US-5508947-\$ or US-5508947-\$ or US-559444-\$ or US-5680471-\$ or US-5680471-\$ or US-5640825-\$ or US-5867592-\$ or US-5953451-\$ or US-5953451-\$ or US-5953451-\$ or US-694057-\$ or US-6317617-\$ or US-610844-\$ or US-621941-\$ or US-6424746-\$ or US-6289136-\$ or US-6428136-\$ or US-648105-\$).did. or (EP-441972-\$).did.) and interpo\$8	(((curve near (extract\$8)) with USPAT; US-PGPUB; image) and ((382.clas. or 345.clas.) and @ad<20001011)) and interpo\$8	4 (((obtain\$6 or derive or U) deriving or derived or Ef derivation or acqui\$8 or genera\$8 or produc\$8 or extract\$8) near3 curve) near5 (image)) and ((382.clas. or 345.clas.) and @ad<20001011) and ((US- 5163094-\$ or US-5040224-\$ or US-4975969-\$ or US-	231 (((obtain\$6 or derive or U3 deriving or derived or EF deriving or derived or EF derivation or acqui\$8 or genera\$8 or produc\$8 or extract\$8) near3 curve) near5 (image)) and ((382.clas. or 345.clas.) and @ad<20001011)
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USPAT, US-PGPUB; EPO; JPO; DERWENT; IBM_TDB		USPAT	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
176 ((US-6785016-\$ or US-6786420-\$ or US-6789191-\$ or US-6789194-\$ or US-678918-\$ or US-6539194-\$ or US-6539112-\$ or US-6542620-\$ or US-6542645-\$ or US-6549804-\$ or US-6549935-\$ or US-65499395-\$ or US-6549935-\$ or US-6549935-\$ or US-6549935-\$ or US-65499395-\$ or US-65499395-\$ or US-65499395-\$ or US-654998-\$ or US-6549995-\$ or US-65499995-\$ or US-6549995-\$ or US-6549995-\$ or US-6549995-\$ or US-65499995-\$ or US-65499995-\$ or US-65499995-\$ or US-654999999999999999999999999999999999999	6553129-\$ or US-6556720-\$ or US-6560349-\$ or US- 6567533-\$ or US-6587821-\$ or US-6591017-\$ or US- 6614914-\$ or US-6633671-\$ or US-6636216-\$ or US- 6643406-\$ or US-6647128-\$ or US-6658140-\$ or US- 6658164-\$).did. or (US- 665454-\$ or US-6671414-\$ or US-6675210-\$ or US- 6678423-\$ or US-6678499-\$ or US-6679420-\$ or US- 6681029-\$ or US- 6681029-\$ or US- 6681029-\$ or US- 6681029-\$ or US- 66700990-\$ or US- 6700990-\$ or US- 6700990-\$ or US-	6727996-\$ or US-6728000-\$ or US-6737591-\$ or US- 6750011-\$ or US-6750901-\$ or US-6760119-\$ or US- 6766942-\$ or US-6775392-\$ or US-6775419-\$ or US- 6782132-\$ or US-6233347-\$ or US-6252963-\$ or US- 6256350-\$ or US-2266430-\$ or US-6281882-\$).did. or (US- 6286036-\$ or US-6289108-\$ or US-6298176-\$ or US- 6315200-\$ or US-	2 (((center or centroid or (center USPAT; US-PGPUB; adj2 mass)) near3 pixel) with EPO; JPO; DERWEN point with curve) same fit\$4 BM_TDB
176			2

USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT, US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	JSPAT; US-PGPUB; EPO; JPO; DERWENT; BM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT	USPAT	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT
2 (((center or centroid or (center USPAT; US-PGPUB; adj2 mass)) near3 pixel) with EPO; JPO; DERWEN point with (curve or spline)) IBM_TDB same fit\$4	14 (((center or centroid or (center USPAT; US-PGPUB; adj2 mass)) near3 pixel) same EPO; JPO; DERWENT; point same (curve or spline)) IBM_TDB same fit\$4	9 (((center or centroid or (center USPAT; US-PGPUB; adj2 mass)) near3 pixel) same [EPO; JPO; DERWENT; point same (curve or spline)) IBM_TDB same fit\$4 and @ad<20001011	20 (((center or centroid or (center USPAT; US-PGPUB; adj2 mass)) near3 pixel) EPO; JPO; DERWEN same (curve or spline)) same IBM_TDB fit\$4 and @ad<20001011	212 (pixel with (curve or spline) with fit\$4) and @ad<20001011	t\$4)	5 5454070.URPN. 3 ("4910786" "4949281" U "5172423" PN		79 ((adjacent near pixel) with point with interpoi\$5) E	63 ((adjacent near pixel) with point with interpol\$5) and E @ad<20001011	oixel) with ol\$5) and and occlas.)	1 (US-5454070-\$).did.

L	F.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB		USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB
USPAT	USPAT	USPAT; U EPO; JPC IBM_TDB	USPAT; U EPO; JPO IBM_TDB	USPAT; U EPO; JPO IBM_TDB	USPAT; U EPO; JPO IBM_TDB	USPAT; U EPO; JPO IBM_TDB	USPAT; U EPO; JPO IBM_TDB	USPAT	USPAT; U EPO; JPO IBM_TDB	USPAT; U EPO; JPO IBM_TDB	USPAT; U EPO; JPO IBM_TDB	USPAT; U EPO; JPO IBM TDB
		10 (((adjacent near pixel) with Interpol\$5) same curve) and E@ad<20001011 and III (382.clas. or 345.clas.)	0 (((adjacent near pixel) with Interpol\$5) same (control adj E point) and @ad<20001011 III and (382.clas. or 345.clas.)	6 (((adjacent near pixel) with uninterpol\$5) and (control adjector) and @ad<20001011 III and (382.clas. or 345.clas.)	27 (((adjacent near pixel) with Uinterpol\$5) with (point)) and E@ad<20001011 and II (382.clas. or 345.clas.)		2 ((((adjacent near pixel) with uninterpol\$5) with (point)) same Ecurve) and @ad<20001011		((US-5454070-\$).did.) and Endode	2 6282773.pn. E	0 6828773.pn. E	5828773.pn. U
) (0 II	<u>L</u>	10 :i:	0	φ Σ :	27 (s)	63 (1	22 0	1)[1) [2 6	0	2 5

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7183") or 288") or 773") or	
or ("481") or ("6241 or ("5828 or or	
6487306") or ("4817183") or USPAT	
9.)) 8 (29.) (29.)	

EAST SEARCH TAGGED	H TAGGED						
patent #	type	pub date		class1	class2	inventor	
US 6185318 B1	USPAT	20010206	20010206 System and method for matching (fingerprint) images an aligned stringbased representation	382/125	382/115; 382/124; 382/195	Jain, Anil K. et al.	
US 6091839 A	USPAT	20000718	20000718 Fingerprint characteristic extraction apparatus as well as fingerprint classification apparatus and fingerprint verification apparatus for use with fingerprint characteristic extraction apparatus	382/125	382/116	Uchida, Kaoru	
US 6487306 B1	USPAT	20021126		382/125	382/201	Jain, Anil K. et al.	
US 20020097896 A1	US-PGPUB	20020725	20020725 DEVICE AND METHOD FOR SCANNING AND MAPPING A SURFACE	382/124		KUCKENDAHL, LARS	
US 6658140 B1	USPAT	20031202		382/127	340/5.83; 356/71; 382/115; 382/124	Hillmann, Juergen et al.	
US 4817183 A	USPAT	19890328	19890328 Fingerprint recognition and retrieval system	382/125	382/204	Sparrow, Malcolm K.	
US 6263091 B1	USPAT	20010717	20010717 System and method for identifying foreground and background portions of digitized images	382/125	382/124; 382/173; 382/190; 382/197	Jain, Anil K. et al.	
US 5845005 A	USPAT	19981201	19981201 Apparatus for fingerprint indexing and searching	382/124	9/202	Setlak, Dale R. et al.	
US 20010036299 A1	US-PGPUB	20011101	20011101 COMBINED FINGERPRINT 382/124 ACQUISITION AND CONTROL DEVICE	382/124		SENIOR, ANDREW WILLIAM	
US 6314196 B1	USPAT	20011106	20011106 Fingerprint registering method and fingerprint checking device	382/125	257/E27.153; 257/E27.159; 382/115; 382/116; 382/119; 382/124	Yamaguchi, Masahiko et al.	

Bergenek, Jerker et	al.	Yamaguchi, Masahiko et al.	Kamei, Toshio	Gagne, Patricia C. et al.	292/350; 340/5.53; Hwang, Moon Sung 382/124; 70/278.1; 70/283	Bolle, Rudolf Maarten et al.	Donelly, Ross A. et al.
283/69; 283/78;	382/116; 382/124; 396/15		382/228		292/350; 340/5.53; 382/124; 70/278.1; 70/283	382/190; 382/209	345/441; 345/442 Donelly, Ross A. et al.
283/67		382/125	382/125	382/125	70/277	382/125	345/589
Fingerprint	identification/verification system	20000919 Fingerprint dictionary image 382/125 renewing method	19991026 Fingerprint classification system	19941108 Non-minutiae automatic fingerprint identification system and methods	20020423 Locking doorknob which recognizes a finger print	20000606 System and method using minutiae pruning for fingerprint image processing	Pixel to spline based region 345/589 conversion method
20010605 Fingerprint		20000919	19991026	19941108	20020423	20000606	19950926 Pixel
USPAT		USPAT	USPAT	USPAT	USPAT	USPAT	USPAT
US 6241288 B1		US 6122395 A	US 5974163 A	US 5363453 A	US 6374652 B1	US 6072895 A	US 5454070 A

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